

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/804733

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) ☐ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) ☐. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☐ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES) Sequence(s) ☐ are missing this mandatory field or its response.
- 12 ☐ Use of <220>Feature (NEW RULES) Sequence(s) ☐ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted "file," resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/804,733

DATE: 03/27/2001  
TIME: 15:22:51

Input Set : A:\Mtc661-1.txt  
Output Set: N:\CRF3\03272001\I804733.raw

Does Not Comply  
Genetic Data Needed

3 <110> APPLICANT: Monsanto Company  
5 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS  
7 <130> FILE REFERENCE: MTC6614.1  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/804,733  
C--> 9 <141> CURRENT FILING DATE: 2001-03-13  
9 <150> PRIOR APPLICATION NUMBER: US 60/188,990  
10 <151> PRIOR FILING DATE: 2000-03-13  
12 <160> NUMBER OF SEQ ID NOS: 29  
14 <170> SOFTWARE: PatentIn version 3.0  
16 <210> SEQ ID NO: 1  
17 <211> LENGTH: 5  
18 <212> TYPE: PRT  
19 <213> ORGANISM: Euthynnus pelamis  
21 <220> FEATURE:  
22 <221> NAME/KEY: PEPTIDE  
23 <222> LOCATION: (1)..(5)  
25 <400> SEQUENCE: 1  
27 Leu Lys Pro Asn Met  
28 1 5  
30 <210> SEQ ID NO: 2  
31 <211> LENGTH: 4  
32 <212> TYPE: PRT  
33 <213> ORGANISM: Euthynnus pelamis  
35 <220> FEATURE:  
36 <221> NAME/KEY: PEPTIDE  
37 <222> LOCATION: (1)..(4)  
39 <400> SEQUENCE: 2  
41 Lys Pro Asn Met  
42 1  
44 <210> SEQ ID NO: 3  
45 <211> LENGTH: 4  
46 <212> TYPE: PRT  
47 <213> ORGANISM: Euthynnus pelamis  
49 <220> FEATURE:  
50 <221> NAME/KEY: PEPTIDE  
51 <222> LOCATION: (1)..(4)  
53 <400> SEQUENCE: 3  
55 Val Val Tyr Pro  
56 1  
58 <210> SEQ ID NO: 4  
59 <211> LENGTH: 15  
60 <212> TYPE: DNA  
61 <213> ORGANISM: Artificial/Unknown  
63 <220> FEATURE:  
64 <221> NAME/KEY: misc\_feature  
65 <222> LOCATION: (1)..(15)  
66 <223> OTHER INFORMATION: Degenerate sequence

pp 2-5

Invalid. Per 1.823 of new sequence rules,  
the only valid <213> responses are:  
Unknown, Artificial Sequence, or  
Scientific name (Genus/species) — one of the  
three

See circled portion  
of item 12 on Error Summary sheet

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Input Set : A:\Mtc661-1.txt  
Output Set: N:\CRF3\03272001\I804733.raw

```

69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (1)..(15)
72 <223> OTHER INFORMATION: n=a, t, c or g; r=a or g; y=c or t
75 <400> SEQUENCE: 4
76 ctnaarcna ayatg 15
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 60
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial/Unknown
84 <220> FEATURE:
85 <221> NAME/KEY: misc_feature
86 <222> LOCATION: (1)..(60)
87 <223> OTHER INFORMATION: n=any nucleotide; r=a or g; y=c or t
90 <220> FEATURE:
91 <221> NAME/KEY: misc_feature
92 <222> LOCATION: (1)..(60)
93 <223> OTHER INFORMATION: Degenerate sequence
96 <400> SEQUENCE: 5
97 ctnaarcna ayatgctnaa rcnaayatg ctnaarcna ayatgctnaa rcnaayatg 60
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 60
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial/Unknown
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (1)..(60)
108 <223> OTHER INFORMATION: n=any nucleotide, r=a or g, y=c or t
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (1)..(60)
114 <223> OTHER INFORMATION: degenerate sequence
117 <400> SEQUENCE: 6
118 catrttnggy tttagcatrt tnggytttag catrttnggy tttagcatrt tnggytttag 60
121 <210> SEQ ID NO: 7
122 <211> LENGTH: 25
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial/Unknown
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (1)..(25)
129 <223> OTHER INFORMATION: Primer
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (1)..(25)
135 <223> OTHER INFORMATION: n=any nucleotide; r=a or g; y=c or t
138 <400> SEQUENCE: 7
139 aaagaattcc tnaarcnaa yatgc 25
142 <210> SEQ ID NO: 8

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/804,733

DATE: 03/27/2001  
TIME: 15:22:51

Input Set : A:\Mtc661-1.txt  
Output Set: N:\CRF3\03272001\I804733.raw

143 <211> LENGTH: 27  
144 <212> TYPE: DNA  
145 <213> ORGANISM: Artificial/Unknown  
147 <220> FEATURE:  
148 <221> NAME/KEY: misc\_feature  
149 <222> LOCATION: (1)..(27)  
150 <223> OTHER INFORMATION: Primer  
153 <220> FEATURE:  
154 <221> NAME/KEY: misc\_feature  
155 <222> LOCATION: (1)..(27)  
156 <223> OTHER INFORMATION: n=any nucleotide; r=a or g; y=c or t  
159 <400> SEQUENCE: 8  
W-160 aaagcgccg ccatrttngg yttnagc 27  
163 <210> SEQ ID NO: 9  
164 <211> LENGTH: 20  
165 <212> TYPE: DNA  
166 <213> ORGANISM: Artificial/Unknown  
168 <220> FEATURE:  
169 <221> NAME/KEY: misc\_feature  
170 <222> LOCATION: (1)..(20)  
171 <223> OTHER INFORMATION: Primer  
174 <400> SEQUENCE: 9  
175 taatacgact cactataggg 20  
178 <210> SEQ ID NO: 10  
179 <211> LENGTH: 19  
180 <212> TYPE: DNA  
181 <213> ORGANISM: Artificial/Unknown  
183 <220> FEATURE:  
184 <221> NAME/KEY: misc\_feature  
185 <222> LOCATION: (1)..(19)  
186 <223> OTHER INFORMATION: Primer  
189 <400> SEQUENCE: 10  
190 cgaatcaataa cgaatcgcc 19  
193 <210> SEQ ID NO: 11  
194 <211> LENGTH: 48  
195 <212> TYPE: DNA  
196 <213> ORGANISM: Artificial/Unknown  
198 <220> FEATURE:  
199 <221> NAME/KEY: misc\_feature  
200 <222> LOCATION: (1)..(48)  
201 <223> OTHER INFORMATION: n=any nucleotide; y=c or t  
204 <220> FEATURE:  
205 <221> NAME/KEY: misc\_feature  
206 <222> LOCATION: (1)..(48)  
207 <223> OTHER INFORMATION: Degenerate sequence  
210 <400> SEQUENCE: 11  
W-211 gtngtntayc cngtngnta yccngtngtn tayccngtng tntayccn 48  
214 <210> SEQ ID NO: 12  
215 <211> LENGTH: 48

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/804,733

DATE: 03/27/2001  
 TIME: 15:22:51

Input Set : A:\Mtc661-1.txt  
 Output Set: N:\CRF3\03272001\I804733.raw

216 <212> TYPE: DNA  
 217 <213> ORGANISM: Artificial/Unknown  
 219 <220> FEATURE:  
 220 <221> NAME/KEY: misc\_feature  
 221 <222> LOCATION: (1)..(48)  
 222 <223> OTHER INFORMATION: n=any nucleotide; r=a or g  
 225 <220> FEATURE:  
 226 <221> NAME/KEY: misc\_feature  
 227 <222> LOCATION: (1)..(48)  
 228 <223> OTHER INFORMATION: Degenerate sequence  
 231 <400> SEQUENCE: 12  
 232 nggrtanacn acnggrtana cnaenggrta nacnacnggr tanacnac 48  
 235 <210> SEQ ID NO: 13  
 236 <211> LENGTH: 33  
 237 <212> TYPE: DNA  
 238 <213> ORGANISM: Artificial/Unknown  
 240 <220> FEATURE:  
 241 <221> NAME/KEY: misc\_feature  
 242 <222> LOCATION: (1)..(33)  
 243 <223> OTHER INFORMATION: Forward primer  
 246 <220> FEATURE:  
 247 <221> NAME/KEY: misc\_feature  
 248 <222> LOCATION: (1)..(33)  
 249 <223> OTHER INFORMATION: n=any nucleotide; y=c or t  
 252 <400> SEQUENCE: 13  
 253 aaaggatccg tngtntaycc ngtngtntay ccn 33  
 256 <210> SEQ ID NO: 14  
 257 <211> LENGTH: 33  
 258 <212> TYPE: DNA  
 259 <213> ORGANISM: Artificial/Unknown  
 261 <220> FEATURE:  
 262 <221> NAME/KEY: misc\_feature  
 263 <222> LOCATION: (1)..(33)  
 264 <223> OTHER INFORMATION: Reverse primer  
 267 <220> FEATURE:  
 268 <221> NAME/KEY: misc\_feature  
 269 <222> LOCATION: (1)..(33)  
 270 <223> OTHER INFORMATION: n=any nucleotide; r=a or g  
 273 <400> SEQUENCE: 14  
 274 cccaagcttn ggrrtanacna cnggrtanac nac 33  
 277 <210> SEQ ID NO: 15  
 278 <211> LENGTH: 45  
 279 <212> TYPE: DNA  
 280 <213> ORGANISM: Artificial/Unknown  
 282 <220> FEATURE:  
 283 <221> NAME/KEY: misc\_feature  
 284 <222> LOCATION: (1)..(45)  
 285 <223> OTHER INFORMATION: n=any nucleotide  
 288 <220> FEATURE:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/804,733

DATE: 03/27/2001  
TIME: 15:22:51

Input Set : A:\Mtc661-1.txt  
Output Set: N:\CRF3\03272001\I804733.raw

289 <221> NAME/KEY: misc\_feature  
290 <222> LOCATION: (1)..(45)  
291 <223> OTHER INFORMATION: Degenerate sequence  
294 <400> SEQUENCE: 15  
OK> 295 gtncncncng tncncncngt nccncncgtn ccncncngtnc cncnc 45  
298 <210> SEQ ID NO: 16  
299 <211> LENGTH: 45  
300 <212> TYPE: DNA  
301 <213> ORGANISM: Artificial/Unknown  
303 <220> FEATURE:  
304 <221> NAME/KEY: misc\_feature  
305 <222> LOCATION: (1)..(45)  
306 <223> OTHER INFORMATION: n=any nucleotide  
309 <220> FEATURE:  
310 <221> NAME/KEY: misc\_feature  
311 <222> LOCATION: (1)..(45)  
312 <223> OTHER INFORMATION: Degenerate sequence  
315 <400> SEQUENCE: 16  
OK> 316 ngngggnacn ggnggnacng gnggnacngg nggnacnggn ggnac 45  
319 <210> SEQ ID NO: 17  
320 <211> LENGTH: 36  
321 <212> TYPE: DNA  
322 <213> ORGANISM: Artificial/Unknown  
324 <220> FEATURE:  
325 <221> NAME/KEY: misc\_feature  
326 <222> LOCATION: (1)..(36)  
327 <223> OTHER INFORMATION: Forward primer  
330 <220> FEATURE:  
331 <221> NAME/KEY: misc\_feature  
332 <222> LOCATION: (1)..(36)  
333 <223> OTHER INFORMATION: n=any nucleotide  
336 <400> SEQUENCE: 17  
OK> 337 aaaggatccg tncncncngt nccncncgtn cncnc 36  
340 <210> SEQ ID NO: 18  
341 <211> LENGTH: 36  
342 <212> TYPE: DNA  
343 <213> ORGANISM: Artificial/Unknown  
345 <220> FEATURE:  
346 <221> NAME/KEY: misc\_feature  
347 <222> LOCATION: (1)..(36)  
348 <223> OTHER INFORMATION: Reverse primer  
351 <220> FEATURE:  
352 <221> NAME/KEY: misc\_feature  
353 <222> LOCATION: (1)..(36)  
354 <223> OTHER INFORMATION: n=any nucleotide  
357 <400> SEQUENCE: 18  
OK> 358 aataagcttn ggnggnacng gnggnacngg nggnac 36  
361 <210> SEQ ID NO: 19  
362 <211> LENGTH: 8

*Please correct this error in  
subsequent sequences.*

**FBI**

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/804,733

DATE: 03/27/2001  
TIME: 15:12:52

Input Set : A:\Mtc661-1.txt  
Output Set: N:\CRF3\03272001\I804733.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4  
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 5  
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7  
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 8  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 11  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 12  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 13  
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 14  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 15  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 16  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 17  
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 18  
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 20  
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 21  
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 22  
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 23  
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 23  
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 25  
L:499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 25  
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 26  
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 26  
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 27  
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 27  
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 28  
L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 28